

PHILIPPINE-AMERICAN ACADEMY OF SCIENCE AND ENGINEERING

PAASE Monthly Newsletter

Volume: Year 2025 | February Issue

Global Women's Breakfast 2025 Celebration

The Global Women's Breakfast 2025, held in conjunction with the United Nations International Day of Women and Girls in Science, brought together thousands of scientists from nearly 100 countries to discuss overcoming barriers to gender equality and equity in science. The event, co-organized by the Philippine American Academy of Science and Engineering (PAASE), Central Mindanao University, and the Institute of Chemistry at the University of the Philippines Los Banos, aimed to accelerate equity in science. The Philippines, ranked 17th globally in closing the gender gap in STEM, was highlighted as a shining example in Asia. The event featured a special video presentation by PAASE, showcasing inspiring work in creating more inclusive and equitable science communities. The program also included a TikTok entry that earned second prize in the global TikTok challenge by IUPAC relative to the GWB 2025 celebration. The event encouraged active engagement and participation in the global movement to envision a future where science is truly for everyone.

The meeting began with the host welcoming everyone and introducing the program agenda. Dr. Gladys J. Completo, the President of PAASE, gave opening remarks. The first speaker, Dr. Aimee Barion Dupo, shared her inspiring journey in STEM, emphasizing the importance of resilience, passion, and perseverance. The second speaker, Dr. Arlene Bartolome, discussed her journey from being a chemist to a plant biologist and food scientist, highlighting the value of embracing failures as learning experiences. The third speaker, Dr. Joanne Narciso, talked about her journey from being a chemist to a plant biologist and food scientist, emphasizing the importance of collaboration and the integration of multiple scientific disciplines. The conversation ended with the recognition of the speakers and the announcement of the winners of the TikTok challenge.

Dr. Dupo discussed the importance of mentorship and support in the field of science, particularly in STEM disciplines. She shared her personal journey, highlighting the influence of her parents, mentors, and peers on her development as an ecologist. Dr. Dupo also emphasized the importance of science communication, using social media and local examples to make scientific concepts more accessible. Dr. Dupo also highlighted the need to expose young scientists to field activities and informal training early on, and to encourage them to pursue STEM careers.

Dr. Bartolome shared their personal journey from aspiring pediatrician to Senior Scientist at Pfizer, highlighting the challenges, doubts, and discoveries that shaped their path in chemistry. She recount how a passion for science emerged in high school, ultimately leading to a career in research. Through this talk, the speaker aims to inspire others to explore scientific fields whether in biology, physics, math, or chemistry despite obstacles. Additionally, she provided insights and resources for those considering graduate studies abroad.

Dr. Joan Narciso shared her academic and professional journey, starting with her undergraduate studies in natural products chemistry, focusing on plant foods and

their bioactivity. She then pursued a master's in biochemistry and molecular biology, working on a drought tolerance gene in rice. Joan continued her research in plant cell and molecular biology for her PhD at the University of Melbourne, Australia, where she discovered and characterized the enzymes that produce glycans of arabinogalactan proteins. After completing her PhD, Dr. Narciso worked as a research technician in a food biochemistry lab and later held postdoctoral positions in plant biology. She then moved to Switzerland to work on Kabog Millet, an endangered crop in the Philippines. Currently, Joan is working on novel strategies to reduce protein allergen levels in foods at the University of Lake Yada.

The meeting involved discussions on engaging marginalized communities in research and science. Dr. Dupo and Dr. Narciso shared their experiences and strategies for reaching out to these communities in the Philippines. Dr. Dupo emphasized the importance of increasing membership and reaching more islands in the country, while Dr. Narciso highlighted the need for persistence and perseverance in making a positive impact.


The speakers shared their experiences and insights on overcoming challenges and achieving success in their respective fields. The discussion also highlighted the importance of nurturing curiosity, resilience, and collaboration in the pursuit of knowledge and progress.

Facebook live link: <https://fb.watch/xPB5vv2-AG/>

Tiktok Video Link: <https://web.facebook.com/reel/637611108726585>


STEMulating a Passion for Women in Science

AIMEE LYNN B. DUPO




Remove spotlight

PAASE Fireside Chat
Global Women's Breakfast 2025
ACCELERATING EQUITY IN SCIENCE



Aimee Dupo




Arlene Bartolome, PhD

<https://zestahab.com/2023/02/20/women-science>

Remove spotlight

Global Women's Breakfast 2025
ACCELERATING EQUITY IN SCIENCE

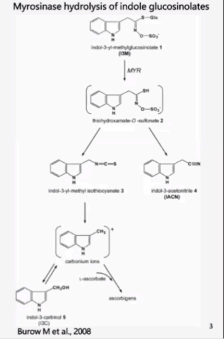


Arlene Bartolome

Myrosinase hydrolysis of indole glucosinolates

The beginning:


Indole glucosinolates in locally grown Brassica vegetables



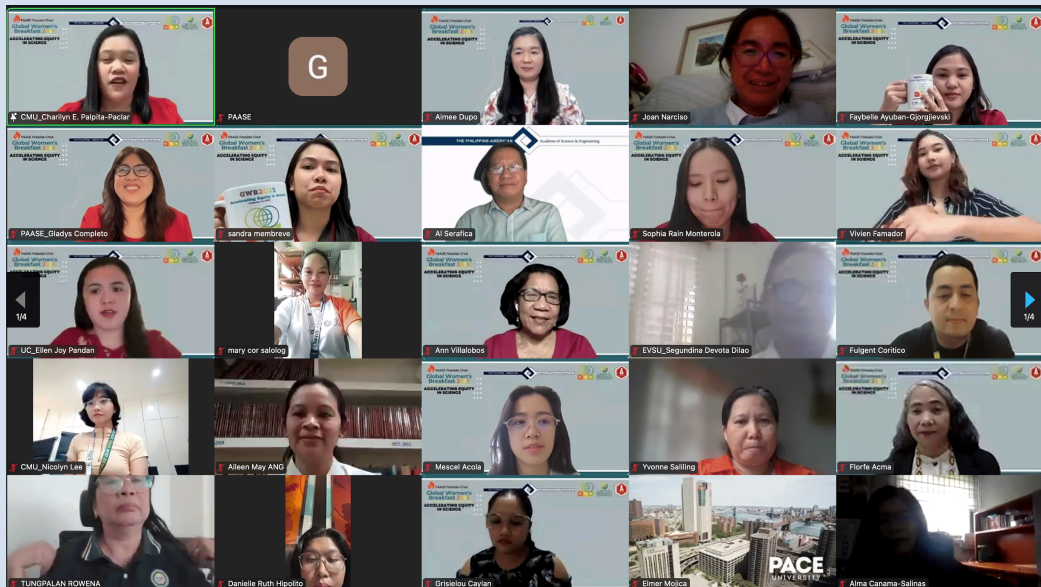
f. Maxima E. Flavler

Burrow M et al., 2008

Remove spotlight



Joan Narciso



In this issue of the PAASE Newsletter, we feature a critical study published in *SciEnggJ* highlighting research on:

Balancing hope and hype on hydrogen's role in the Philippine energy transition

Authors:

DJ Donn C. Matienzo¹, Honesto Ovid S. Tubalinal¹, Jaira Neibel Y. Bamba¹, Michael T. Castro¹, Paul Heherson M. Balite², Julie Anne D.R. Paraggua^{1,3}, and Joey D. Ocon^{*1,3}

¹Laboratory of Electrochemical Engineering, Department of Chemical Engineering, College of Engineering, University of the Philippines Diliman, Quezon City 1101, Philippines

²Technology Management Center, University of the Philippines Diliman, Quezon City, 1101, Philippines

³Energy Engineering Program, National Graduate School of Engineering, College of Engineering, University of the Philippines Diliman, Quezon City, 1101, Philippines

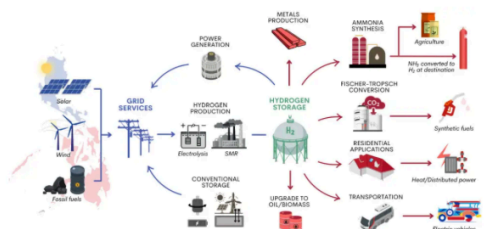
Hydrogen (H₂) offers a promising opportunity to transform the Philippines' energy sector. As a clean energy source, it can power industries, transportation, and electricity generation—helping the country combat climate change and move toward a more sustainable future. However, before hydrogen can reach its full potential, key challenges must be addressed, particularly in regulations and policies.

For hydrogen to become a viable energy solution, the country needs clear rules on infrastructure development, safety standards for production and storage, faster permitting processes, better monitoring of renewable energy-powered electrolysis, stronger support for research and innovation, and incentives for hydrogen-based products.

This policy brief explores the current state of hydrogen energy in the Philippines, identifies policy and regulatory gaps, and outlines the steps needed to build a strong hydrogen sector. A well-designed policy framework—covering regulations, financial incentives, technical expertise, and strategic export plans—will help the Philippines make the most of its renewable resources, strengthen energy security, and reduce emissions.

Dive into this fascinating discovery by reading the full research article in *SciEnggJ*. DOI: <https://scienggj.org/2024-156/>

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Date accepted: March 20, 2024

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COMMENTARY

Balancing hope and hype on hydrogen's role in the Philippine energy transition

DJ Donn C. Matienzo¹, Honesto Ovid S. Tubalinal¹, Jaira Neibel Y. Bamba¹, Michael T. Castro¹, Paul Heherson M. Balite², Julie Anne D.R. Paraggua^{1,3}, and Joey D. Ocon^{1,3}

¹Laboratory of Electrochemical Engineering, Department of Chemical Engineering, College of Engineering, University of the Philippines Diliman, Quezon City 1101, Philippines

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KEYWORDS: green hydrogen, policy recommendations, energy vector, energy transition, renewable energy

Hydrogen (H₂) presents a unique opportunity for the Philippines' energy landscape. Using hydrogen as an 'energy vector' for industrial, power, and transportation applications represents a promising and sustainable solution in its ongoing efforts to address climate change and transition towards a cleaner energy future. However, unlocking this potential requires first addressing regulatory and policy gaps. This challenge has many different facets, such as the need for regulations to support the hydrogen infrastructure development, the establishment of clear standards for safe hydrogen production, storage and handling, streamlining of permit and license applications, monitoring of solar or wind power plants coupled with electrolysis process, provision of more substantial support for research and innovation, and promotion of hydrogen-based products. This policy brief describes the current landscape and identifies the regulatory and policy gaps that policymakers must fill while highlighting the Philippines' potential for hydrogen energy and energy storage in the short and long run. It is crucial to have a complete policy framework that addresses regulatory clarity, financial incentives for infrastructure development, technical capacity, support for R&D, and strategic export planning. The Philippines can utilize its renewable resources, improve energy security, and cut emissions by filling these gaps.

PAASE STEAM Career Orientations

We are inviting everyone to join us in the upcoming **PAASE STEAM Career Month** this April 2025. This is part of PAASE's foundation month celebration.

The goal of the PAASE STEAM Career Month is to provide students at the high school level particularly those in Grades 11 and 12, with valuable insights on the different STEAM fields so that they are equipped with the knowledge, resources, and inspiration to make well-informed decisions for pursuing careers in science, technology, engineering, arts, and mathematics. Throughout the month-long event, students will engage in interactive sessions and discussions led by accomplished professionals, experts and leaders in their respective STEAM fields.

Event Details

Dates:

April 5, 12, 26 (Saturdays, 9-11 AM), Online via Zoom Platform

Zoom Meeting ID: 836 8937 4899

Passcode: STEAM2025

Themes:

- April 5: Engineering, Data Science, Physics, Information Technology
- April 12: Health Sciences, Chemistry, Marine Science, Agriculture
- April 26: Careers in Academia, Industry, Government, and Innovation (Start-ups)

Kindly share this event invite to colleagues and highschoools that might be interested to attend. Thank you very much.

Unlocking the Future: Exploring Careers in

THE PHILIPPINE - AMERICAN Academy of Science & Engineering

STEM

REGISTER NOW: <https://bit.ly/40Ri0IK>

Sat, April 5, 2025, 9:00 AM (PHT) /
Fri, April 4, 9:00 PM (EST)

Meeting ID: 836 8937 4899
Passcode: STEAM2025

MODERATORS

John Ryan Dizon
Member, Board of Director
PAASE

Angelyn Lao, PhD
Member, Board of Directors
PAASE

SPEAKERS

INDUSTRIAL ENGINEERING

ANTHONY CHIU, PhD
Professor
La Salle University

ROBOTICS

SHERWIN YAP, PhD
President
Kaizen Robotics Corporation

COMPUTER SCIENCE

RIZA BATISTA-NAVARRO, PhD
Senior Lecturer
Department of Computer Science
University of Manchester

COFFEE & CACAO

EMMANUEL GARCIA, PhD
Professor
De La Salle University

Unlocking the Future: Exploring Careers in

THE PHILIPPINE - AMERICAN Academy of Science & Engineering

STEM

REGISTER NOW: <https://bit.ly/40Ri0IK>

Sat, April 12, 2025, 9:00 AM (PHT) /
Fri, April 11, 9:00 PM (EST)

Meeting ID: 836 8937 4899
Passcode: STEAM2025

MODERATORS

Ma. Carmen Abian-Lagman, PhD
Member, Board of Director
PAASE

Angelyn Lao, PhD
Member, Board of Directors
PAASE

SPEAKERS

SOCIAL SCIENCES

MARIANO STO. DOMINGO, PhD
Associate Director for Evaluation & Research
Meyerhoff Scholars Program
University of Maryland, Baltimore County (UMBC)

MICROBIOLOGY

LAWRENCE DAVID, PhD
Associate Professor
Department of Molecular Genetics and Microbiology
Center for Genomics & Computational Biology
Duke University

MATHEMATICS & STATISTICS

DEBBIE MARIE B. VERZOSA, PhD
Professor, Department of Mathematics and Statistics
Vice President for
Research, Development, and Extension
University of Southern Mindanao

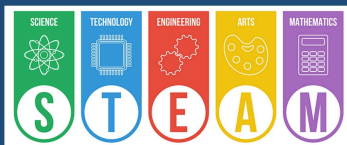
Unlocking the Future: Exploring Careers in

THE PHILIPPINE - AMERICAN



Academy of Science & Engineering

SPEAKERS



REGISTER NOW: <https://bit.ly/40R10IK>



Sat, April 26, 2025, 9:00 AM (PHT) /
Fri, April 25, 9:00 PM (EST)



Meeting ID: 836 8937 4899
Passcode: STEAM2025

MODERATORS



Gladys Completo, PhD
President
PAASE



Angelyn Lao, PhD
Member, Board of Directors
PAASE

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USEC. MARIDON O. SAHAGUN
Undersecretary
for Scientific and Technical Services
Department of Science and Technology

INDUSTRY
LLORENTE BOÑAGA, PhD
Senior Director, Regulatory Affairs, CMC
Global RA and Clinical Safety
Merck and Co, USA

START-UP
JOEL ILAO, PhD
Professor
De La Salle University

CHEMICAL ENGINEERING
KATHLEEN AVISO PhD
Professor
De La Salle University

APAMS 2025

APAMS 2025 CALL FOR ABSTRACTS!

Join us in celebrating PAASE@45 at the 2025 Annual PAASE Meeting & Symposium at the University of South Carolina, USA!

We invite submissions for oral and poster presentations for the Online REC Symposium and Poster Competition (July 14-15, 2025, US) and In-Person Meeting (July 19-20, 2025, US).

Abstract Submission Deadline: May 15, 2025

Submit here: <https://bit.ly/40O9Tqb>

Be part of shaping the future of research, discoveries, and innovations in science and engineering!

For inquiries, email apams.paase@gmail.com.

[#APAMS2025](#) [#CallForAbstracts](#) [#PAASE45](#)



**SHAPING
THE FUTURE**
RESEARCH, DISCOVERIES AND
INNOVATIONS IN SCIENCE
AND ENGINEERING

2025 ANNUAL MEETING & PAASE SYMPOSIUM

July 19-20, 2025 UNIVERSITY OF SOUTH CAROLINA – COLUMBIA SC, USA



Join us in our Celebration of PAASE@45!

CALL FOR ABSTRACTS

(Orals and Posters)!

Dates and Venue:

July 15-16 (PH) 14-15 (US), 2025

Online REC Symposium and Poster competition

July 19-20, (US) 2025

In Person Meeting at the University of South Carolina

**Abstract
(Oral & Poster)
Submission
Portal:**

<https://bit.ly/40O9Tqb>



**Submit Abstracts by:
15 May 2025**

For inquiries:

<https://apams.paase.org/>

apams.paase@gmail.com

APAMS 2025 CALL FOR GRADUATE FELLOWS APPLICATION!

Join us in celebrating PAASE@45 at the 2025 Annual PAASE Meeting & Symposium!

We invite submissions for the Graduate Fellows Application.

Application Deadline: May 15, 2025

Submit here: <https://bit.ly/4hx3O6S>

Be part of shaping the future of research, discoveries, and innovations in science and engineering!

For inquiries, email apams.paase@gmail.com.

[#APAMS2025](#) [#PAASE45](#)



The poster features logos for The Philippine-American Academy of Science & Engineering and the University of South Carolina. It includes a mascot character, a globe with icons, and a hand holding a globe. The main title is '2025 ANNUAL MEETING & PAASE SYMPOSIUM' with the date 'July 19-20, 2025 UNIVERSITY OF SOUTH CAROLINA - COLUMBIA SC, USA'. A side box says 'SHAPING THE FUTURE RESEARCH, DISCOVERIES AND INNOVATIONS IN SCIENCE AND ENGINEERING'. A central box invites to 'Join us in our Celebration of PAASE@45!'. A 'DATES AND VENUE' section lists 'July 15-16 (PH) 14-15 (US), 2025 Online REC Symposium and Poster competition' and 'July 19-20, (US) 2025 In Person Meeting at the University of South Carolina'. A '2025 GRADUATE FELLOWS APPLICATION' section includes a QR code, a link 'https://bit.ly/4hx3O6S', and submission details: 'Submit applications by: 15 May 2025' and 'For inquiries: https://apams.paase.org/ apams.paase@gmail.com'. A 'GUIDELINES' section lists four points: 1. Applicants must be current graduate students, recent graduates (MS or PhD), or research assistants. Provide proof of status (e.g., registration form, diploma, research assistantship contract, and/or employment certificate). 2. Applicants should articulate their career goals and explain how the APAMS fellowship will contribute to their professional development and align with the PAASE vision-mission and APAMS 2025 theme. 3. Successful applicants must be willing to present a poster at APAMS 2025. A 'GENERAL PROVISIONS' section lists: 1. Application Requirements: All applicants must submit a complete application package, including all documents required by the APAMS 2025 Graduate Fellowship guidelines. 2. Selection Criteria: Selection will be based on a comprehensive evaluation of the applicant's academic record, research experience, and the relevance of their research to PAASE's vision and mission and the APAMS 2025 theme. 3. Fellowship Period: The fellowship will run from July 15 to July 20, 2025, subject to satisfactory submission of requirements and availability of funds. 4. Reporting Requirements: Fellows must submit a poster presentation.

APAMS 2025 POSTER COMPETITION!

Join us in celebrating PAASE@45 at the 2025 Annual PAASE Meeting & Symposium at the University of South Carolina, USA!

Online REC Symposium & Poster Competition: July 14-15, 2025 (US) | July 15-16, 2025 (PH)

In-Person Meeting: July 19-20, 2025 | University of South Carolina

Poster Competition with Cash Prizes!

Top 10 posters will be chosen for the Rapid Fire Competition (3-minute talk + 2-minute Q&A).

Submit your abstract by May 15, 2025!

Submit here: <https://forms.gle/D23ofhpX7swfbVAdA>

For inquiries, email apams.paase@gmail.com.

[#APAMS2025](#) [#PAASE](#)



SHAPING THE FUTURE
RESEARCH, DISCOVERIES AND INNOVATIONS IN SCIENCE AND ENGINEERING

2025 ANNUAL MEETING & PAASE SYMPOSIUM
July 19-20, 2025 UNIVERSITY OF SOUTH CAROLINA – COLUMBIA SC, USA



Join us in our Celebration of PAASE@45!

POSTER COMPETITION

Dates and Venue:

July 15-16 (PH) 14-15 (US), 2025
Online REC Symposium and Poster competition

July 19-20, (US) 2025
In Person Meeting at the University of South Carolina

Top ten will be Chosen for Rapid Fire Competition (3-minute talk + 2-minute Q & A)

FIRST PRIZE: Php 6,000 SECOND PRIZE: Php 5,000 THIRD PRIZE: Php 4,000
SEVEN RUNNER UP PRIZES: Php 1,500

Scan the QR Code or use this link:

<https://forms.gle/D23ofhpX7SwfbVAdA>



For inquiries:

<https://apams.paase.org/>
apams.paase@gmail.com

Submit Abstracts by:
15 May 2025



SHAPING THE FUTURE
RESEARCH, DISCOVERIES AND INNOVATIONS IN SCIENCE AND ENGINEERING

2025 ANNUAL MEETING & PAASE SYMPOSIUM
July 19-20, 2025 UNIVERSITY OF SOUTH CAROLINA – COLUMBIA SC, USA



Join us in our Celebration of PAASE@45!

Dates and Venue:

July 15-16 (PH) 14-15 (US), 2025
Online REC Symposium and Poster competition

July 19-20, (US) 2025
In Person Meeting at the University of South Carolina

REGISTRATION DETAILS:

Online REC Symposium and Poster competition July 15-16 (PH) 14-15 (US), 2025

	Earlybird Registration (May 30, 2025)	Regular Registration
Philippine Based Participant:		
• PAASE Member	PHP 625.00	PHP 700.00
• Non-PAASE Member	PHP 775.00	PHP 850.00
Foreign Based:		
• PAASE Member	\$ 100.00	\$ 150.00
• Non-PAASE Member	\$ 150.00	\$ 200.00

In Person Meeting: University of South Carolina July 19-20, (US) 2025

	Earlybird Registration (May 30, 2025)	Regular Registration
• PAASE Member	\$ 300.00	\$ 350.00
• Non-PAASE Member	\$ 350.00	\$ 400.00
• Companion		\$ 200.00
• Postdoc		\$ 100.00
• Student		\$ 75.00
• Graduate Fellow		Free

Optional Trip to Magnolia Plantation / Charleston SC January 21, (US) 2025

• Magnolia Plantation Entrance Fee	\$ 32.00
• Add-ons: Guided tour: From Slavery to Freedom	\$ 15.00
• Nature trails tour	Free (requires tickets)
• Wildlife tour	Free (requires tickets)

REGISTRATION



Scan the QR Code or use this link:
<https://forms.gle/y6ZmFrMDksiuNVqNA>

Register by:
30 May 2025

For inquiries:
<https://apams.paase.org/>
apams.paase@gmail.com

Congratulations, Dr. Guinto

We are thrilled to announce that Dr. Ramon Lorenzo Luis R. Guinto has been awarded the inaugural Kiyoshi Kurokawa Award 2025 by the Japan-based Health and Global Policy Institute (HGPI).

This recognition is a testament to Dr. Guinto's outstanding contributions to global health policy and his unwavering commitment to improving health outcomes for communities worldwide.

Congratulations, Dr. Guinto! Your dedication and hard work inspire us all!



Congratulations!!!



Ramon Lorenzo Luis R. Guinto, MD, DrPH

Associate Professor
SingHealth Duke-NUS Global Health Institute (SDGHI)
Duke-NUS Medical School, National University of Singapore

Kiyoshi Kurokawa Award 2025

PAASE Officers and Board of Directors

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Ex-Officio: Mariano Sto. Domingo, PhD

Thank you for your continued support and participation in PAASE.
We appreciate your dedication and commitment to our organization.

Gladys Cherrisse J. Completo
Technical Editor

Febrey Bless G. Esclares
Managing Editor

Philippine-American Academy of Science & Engineering

<https://www.paase.org>

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